

Amendments to the Claims:

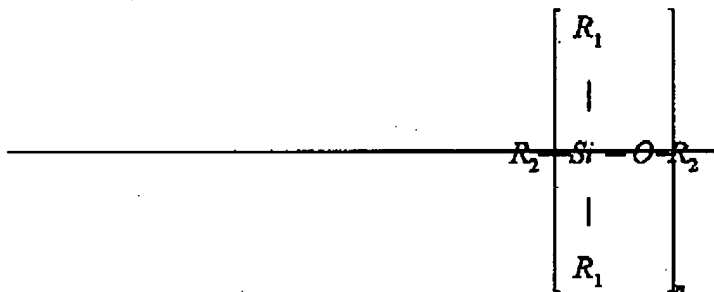
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An elastomer-modified epoxy siloxane composition prepared by combining comprising:

water;

a an alkoxy or silanol-functional silicone intermediate having the formula



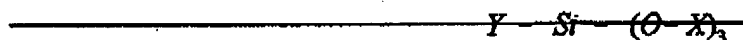
~~where each R_1 is selected from the group consisting of hydroxy, alkyl, aryl and alkoxy groups having up to six carbon atoms, each R_2 is selected from the group consisting of hydrogen, alkyl, and aryl groups having up to six carbon atoms and, wherein n is selected so that the weight-average molecular weight for the polysiloxane is in the range of from about 400 to 10,000;~~

~~a polyfunctional an amine curative agent;~~

~~an epoxy resin having at least two 1,2-epoxide groups; and~~

~~an elastomeric resinous intermediate having a functionality selected from the group consisting of hydroxyl, epoxy, isocyanate, carboxyl, mercaptan, and amine.~~

2. (Currently Amended) The elastomer-modified epoxy siloxane composition as recited in claim 1 wherein the polyfunctional amine curative agent is an aminosilane having the general formula



where Y is H(HNR)_a , and where "a" is an integer of from 1 to 6, R is a difunctional organic radical independently selected from the group consisting of aryl, alkyl, dialkylaryl, alkoxyalkyl, and cycloalkyl radicals, and where X is limited to alkyl, hydroxyalkyl, alkoxyalkyl or hydroxyalkoxyalkyl groups containing less than about six carbon atoms.

3. (Currently Amended) The elastomer-modified epoxy siloxane composition as recited in claim 1 additionally comprising at least one metal catalyst to facilitate cure at ambient temperature, wherein the catalyst is selected from the group consisting of zinc, manganese, zirconium, titanium, cobalt, iron, lead, and tin each in the form of octonates, neodecanates, or naphthanates.

4. (Original) The elastomer-modified epoxy siloxane composition as recited in claim 1 wherein the elastomeric resinous intermediate is selected from the group consisting of epoxy resins, polybutene resins, polybutadiene resins, acrylonitrile resins, polysulfide resins, and combinations thereof.

5. (Currently Amended) The elastomer-modified epoxy siloxane composition as recited in claim 1 wherein the silicone intermediate is selected from the group consisting of alkoxy and silanol functional polysiloxanes having viscosity of from about 3,000 to 15,000 centipoise (cP) at 20°C has a weight-average molecular weight of from 400 to 10,000.

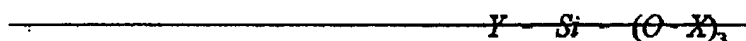
6. (Original) The elastomer-modified epoxy siloxane composition as recited in claim 1 wherein the epoxy resin ingredient is selected from the group consisting of epichlorohydrin-bisphenol A epoxy resins, epochlorohydrin bisphenol F epoxy resins, hydrogenated bisphenol A

epichlorohydrin epoxy resins, glycidyl methacrylate resins, glycidyl esters, phenol novalac epoxy resins, resorcinol-modified epoxy resins, and combinations thereof.

7. (Currently Amended) An elastomer-modified epoxy siloxane composition prepared by combining:

a silicone intermediate selected from the group consisting of alkoxy and silanol-functional polysiloxanes ~~having a weight-average molecular weight in the range of from about 400 to 10,000;~~

an aminosilane curative having the general formula

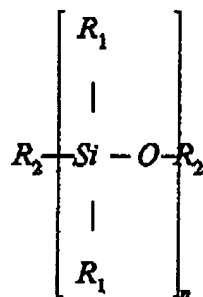


where Y is H(HNR)_a, and where "a" is an integer in the range of from 1 to 6, R is a difunctional organic radical independently selected from the group consisting of aryl, alkyl, dialkylaryl, alkoxyalkyl, and cycloalkyl radicals, and where X is limited to alkyl, hydroxalkyl, alkoxyalkyl or hydroxyalkoxyalkyl groups containing less than about six carbon atoms;

an epoxy resin having at least two 1,2-epoxide groups; and

an elastomeric resinous intermediate having a functionality selected from the group consisting of hydroxyl, epoxy, isocyanate, carboxyl, mercaptan, and amine, and being selected from the group consisting of epoxy resins, polybutene resins, polybutadiene resins, acrylonitrile resins, polysulfide resins, and combinations thereof.

8. (Original) The elastomer-modified epoxy siloxane composition as recited in claim 7 wherein the silicone intermediate has the formula



where each R_1 is selected from the group consisting of hydroxy, alkyl, aryl and alkoxy groups having up to six carbon atoms, each R_2 is selected from the group consisting of hydrogen, alkyl, and aryl groups having up to six carbon atoms.

9. (Original) The elastomer-modified epoxy siloxane composition as recited in claim 7 wherein the epoxy resin ingredient is selected from the group consisting of epichlorohydrin-bisphenol A epoxy resins, epichlorohydrin bisphenol F epoxy resins, hydrogenated bisphenol A epichlorohydrin epoxy resins, glycidyl methacrylate resins, glycidyl esters, phenol novalac epoxy resins, resorcinol-modified epoxy resins, and combinations thereof.

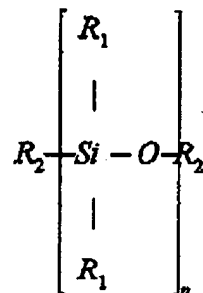
10. (Original) The elastomer-modified epoxy siloxane composition as recited in claim 7 additionally comprising at least one metal catalyst to facilitate cure at ambient temperature, wherein the catalyst is selected from the group consisting of zinc, manganese, zirconium, titanium, cobalt, iron, lead, and tin each in the form of octonates, neodecanates, or naphthanates.

11. (Currently Amended) The elastomer-modified epoxy siloxane composition as recited in claim 7 comprising in the range of from about 1 to 40 percent by weight silicone intermediate, 1 to 15 percent by weight ~~polyfunctional amine~~ aminosilane, 5 to 60 percent by weight epoxy resin, and 1 to 25 percent by weight elastomeric resinous intermediate.

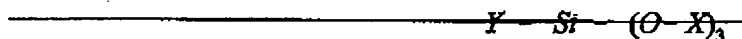
12. (Currently Amended) An elastomer-modified epoxy siloxane composition prepared by combining in the presence of water:

water;

a silicone intermediate having the formula



where each R_1 is selected from the group consisting of hydroxy, alkyl, aryl and alkoxy groups having up to six carbon atoms, each R_2 is selected from the group consisting of hydrogen, alkyl, and aryl groups having up to six carbon atoms and, wherein n is selected so that the weight-average molecular weight for the polysiloxane is in the range of from about 400 to 10,000; an aminosilane curative having the general formula



where Y is $H(HNR)_a$ and where " a " is an integer in the range of from 1 to 6, R is a difunctional organic radical independently selected from the group consisting of aryl, alkyl, dialkylaryl, alkoxyalkyl, and cycloalkyl radicals, and where X is limited to alkyl, hydroxyalkyl, alkoxyalkyl or hydroxyalkoxyalkyl groups containing less than about six carbon atoms;

an epoxy resin having more than one 1,2-epoxide groups per molecule with an epoxide equivalent weight in the range of from 100 to about 5,000; and

an elastomeric resinous intermediate having a functionality selected from the group consisting of hydroxyl, epoxy, isocyanate, carboxyl, mercaptan, and amine, and being selected from the group consisting of epoxy resins, polybutene resins, polybutadiene resins, acrylonitrile resins, and combinations thereof.

13. (Currently Amended) The elastomer-modified epoxy siloxane composition as recited in claim 12 additionally comprising at least one metal catalyst to facilitate cure at ambient temperature, wherein the catalyst is selected from the group consisting of zinc, manganese, zirconium, titanium, cobalt, iron, lead, and tin each in the form of octonates, neodecanates, or naphthanates.

14. (Currently Amended) The elastomer-modified epoxy siloxane composition as recited in claim 12 comprising from about 0.7 to 1.2 amine equivalent weight per epoxide equivalent weight wherein the epoxy resin ingredient is selected from the group consisting of epichlorohydrin-bisphenol A epoxy resins, epichlorohydrin-bisphenol F epoxy resins, hydrogenated bisphenol A epichlorohydrin epoxy resins, glycidyl methacrylate resins, glycidyl esters, phenol novalac epoxy resins, resorcinol-modified epoxy resins, and combinations thereof.

15. (Currently Amended) The elastomer-modified epoxy siloxane composition as recited in claim 12 comprising in the range of from about 1 to 40 percent by weight silicone intermediate, 1 to 15 percent by weight polyfunctional amine aminosilane, 5 to 60 percent by weight epoxy resin, and 1 to 25 percent by weight elastomeric resinous intermediate.

16. (Canceled)

17. (Canceled)

18. (New) The elastomer-modified epoxy siloxane composition as recited in claim 1 wherein the elastomer-modified epoxy siloxane composition in its cured forms exists as a

uniformly dispersed arrangement of epoxy chain fragments that are cross-linked with a continuous polysiloxane chain.

19. (New) The elastomer-modified epoxy siloxane composition as recited in claim 1 wherein the amine curative agent is an aminosilane that includes at least two active hydrogens, and the epoxy resin has more than one 1,2-epoxide groups per molecule.

20. (New) The elastomer-modified epoxy siloxane composition as recited in claim 1 comprising from about 0.7 to 1.2 amine equivalent weight per epoxide equivalent weight.

21. (New) The elastomer-modified epoxy siloxane composition as recited in claim 12 wherein the elastomer-modified epoxy siloxane composition in its cured forms exists as a uniformly dispersed arrangement of epoxy chain fragments that are cross-linked with a continuous polysiloxane chain.

22. (New) The elastomer-modified epoxy siloxane composition as recited in claim 12 wherein the aminosilane includes at least two active hydrogens, and the epoxy resin has more than one 1,2-epoxide groups per molecule.